

Product Data Sheet

Cat # RP-1061

Recombinant Human Creatine Kinase MM Isoenzyme Type-1

Size: 10 ug

Creatine Kinase MM is a cytoplasmic enzyme involved in energy homeostasis and is an important serum marker for myocardial infarction. The encoded protein reversibly catalyzes the transfer of phosphate between ATP and various phosphogens such as creatine phosphate. It acts as a homodimer in striated muscle as well as in other tissues, and as a heterodimer with a similar brain isozyme in heart. The encoded protein is a member of the ATP:guanido phosphotransferase protein family.

**Usage:**

This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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**Source:** *Pichia Pastoris*. CKMMITI Human Recombinant without C-terminal Lysine on both chains produced in *Pichia Pastoris* is a glycosylated polypeptide chain having an identical amino acid sequence compared to the native enzyme, purified under non-denaturing conditions and reacts with polyclonal antibodies to MM Isoenzyme in ELISA. The CKMMITI is purified by proprietary chromatographic techniques. The protein (7.14 mg/ml) contains 0.1M Tris-HCl, 0.075M NaCl, 10mM 2-ME, 50% glycerol, 0.1% sodium azide, pH 7.2.

**Applications and Suggested Dilutions:** Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE. Users must optimize the appropriate concentration and conditions for each assay.

**Storage and Stability:** CKMMITI although stable at 15°C for 7 days, should be stored desiccated below -18°C. If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4oC for ~1 week or aliquots in suitable size and store at -20oC for long term storage. **Please prevent freeze-thaw cycles.**

**Biological Activity:** The biological activity measured by the enzymatic activity of Creatine phosphokinase procedure No.45-UV, 1IU-1 µmole creatine phosphate was 500IU/mg at 37 degrees Celsius.

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